OIL COMPANY OIL COMPANY

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OPM 392

MIL-H-6083D(1) P-15 Preservative per MIL-P-116

BRAYCO MICRONIC 783E
HYDRAULIC FLUID, PETROLEUM BASE
FOR PRESERVATION AND TESTING

DESCRIPTION: BRAYCO 783E is a petroleum base, low viscosity, red colored hydraulic and preservative fluid for aircraft and ordnance use. It is a blend of selected petroleum oils with additives to give a product with exceptionally good viscosity-temperature characteristics, good anti-wear properties, controlled rubber swell. good shear stability and excellent oxidation resistance. It is an excellent corrosion preventive and provides a high degree of detergency to maintain clean systems.

USE: BRAYCO 783E is designed for aircraft, ordnance and other general hydraulic use, and for preserving hydraulic components. It may be used in acceptance testing of hydraulic components intended for use in MIL-H-5606B service. This procedure yields superior preservation since it ensures that the preservative reaches areas usually missed in simple flushing procedures. It is used in hydraulic systems of missile ground support equipment where its preservative properties make it particularly suitable for the long periods of inactivity encountered in this service.

MATERIAL COMPATIBILITIES: BRAYCO 783E is generally used with low acrylonitrile Buna N elastomeric sealants meeting MIL-P-25732 or MIL-P-5516. MS-28775, AN-6227 or AN-6230 "O" rings may be used. Electrical insulating sleeving conforming to MIL-I-631, Type A, Form U, Grade A, Class 1, Cat. 2 has been found satisfactory. This petroleum base fluid may be used with conventional oil and grease resistant paints.

PACKAGING: BRAYCO MICRONIC 783E is available in epoxy-lined 55 gallon net drums and 1-gallon hermetically sealed cans. Other containers may be available on special request.

SPECIFICATIONS: BRAYCO 783E conforms to the requirements of MIL-H-6083D(1) which supersedes Specifications MIL-H-6083C(1), MIL-O-6083A, and AN-O-7. It also meets the requirements for a P-15 preservative under packaging Specification MIL-P-116. It is identified by Military Symbol OHT and NATO Symbol C-635.

PROPERTIES

TEST		SPECIFICA REQUIREM		TYPICAL
Gravity, OAPI @ 60°F		00.0		
Specific @ 60/60°F			32.0	29.9
Pounds per Gallon @ 60°F			0.882	0.8767
			7.341	7.300
Viscosity @ 100°F, cs		14.0	Min	14.31
Viscosity @ -40°F, cs		800	Max	608
Viscosity @ -65°F, cs		3500	Max	3128
Pour Point, of		-75	Max	← 75
Flash Point, COC, F		200	Min	225
Acid or Base Number		0.20	Max	0.056
Trace Sediment, ml	•	0.005	Max	< 0.001
Water by KFR, %		0.05	Max	0.012
Color, as per Standard	*	Pass		Pass
Corr-Oxid. Stab., 168 hrs. @ 250°F	•			
Corrosion, Pitting, or Etching		None		None
Cu, Weight Change, mg/cm ²		0.6	Max	-0.040
St, "	12	0.2	Max	+0.008
A1, " "		0.2	Max	0.000
Mg,		0.2	Max	0.000
Cd, "		0.2	Max	0.040
Oxidation, Separation or Gumming		None		None
Change in Vis. @ 100°F, %		-5 to	+20	+13.71
Increase in Acid Number		0.2,	Max	0.028
Cu Strip, 72 hrs. @ 212°F, ASTM No.		Less than		1b
Corr. Inhibition, Polished Panels		Pass		Pass
Sandblasted Panels		· ·		
Low Temp. Stab., 72 hrs. @ -65°F		Pass	· · ·	Pass
	•	Pass		Pass
Rubber Swell, 168 hrs. @ 158°F, %	et a la company		28.0	25.1
Evaporation Loss, 22 hrs. @ 210°F, %		70	Max	63.7
Corrosivity, 10 days		Pass		Pass
Steel-on-steel Wear, AWSD, mm		1	Max	0.96
Foam, Tendency/Stability, ml				
Seq. 1 75°F, m1		65/C	Max	25/0
Seq. 2 200°F, ml		65/0	Max	15/0
Seq. 3 75°F, m1		65/0	Max	25/0
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